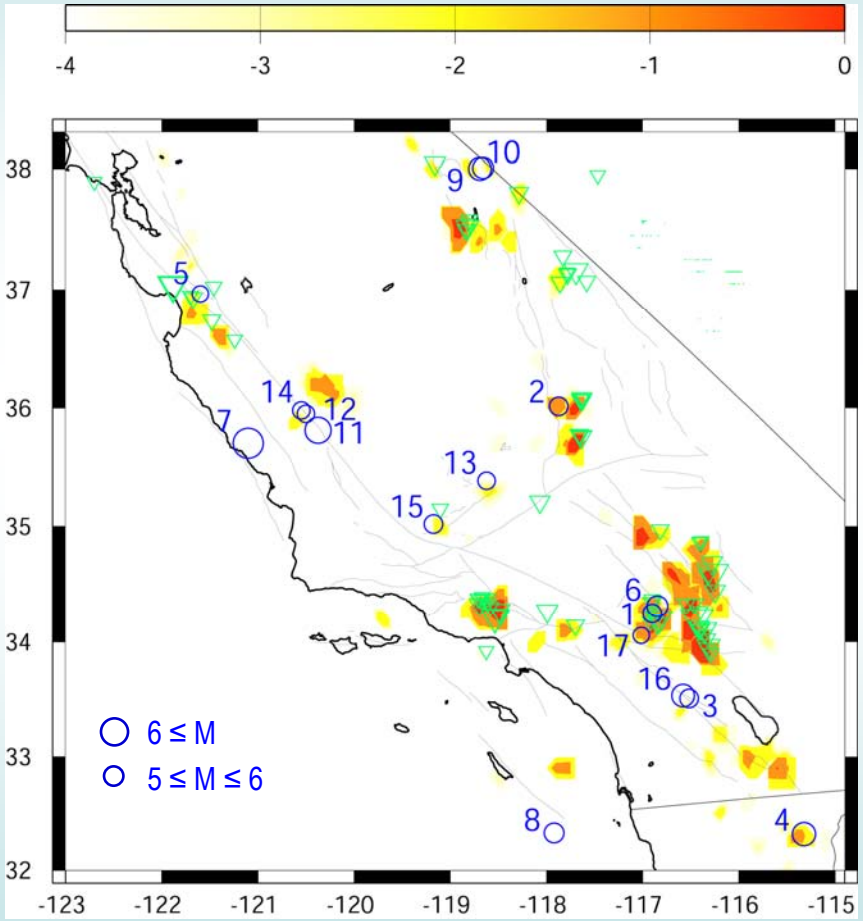
Status of the Real Time Earthquake Forecast Experiment (Original Version)

(JB Rundle et al., PNAS, v99, Supl 1, 2514-2521, Feb 19, 2002; KF Tiampo et al., Europhys. Lett., 60, 481-487, 2002; JB Rundle et al.,Rev. Geophys. Space Phys., 41(4), DOI 10.1029/2003RG000135 ,2003. http://quakesim.jpl.nasa.gov)

How are We Doing?
(Composite N-S Catalog)



Plot of Log_{10} (Seismic Potential)

Increase in Potential for significant earthquakes, ~ 2000 to 2010

Seventeen significant earthquakes (blue circles) have occurred in Central or Southern California. Margin of error of the anomalies is +/- 11 km; Data from S. CA. and N. CA catalogs:

After the work was completed

1. Big Bear I, M = 5.1, Feb 10, 2001
2. Coso, M = 5.1, July 17, 2001

After the paper was in press (September 1, 2001)

3. Anza I, M = 5.1, Oct 31, 2001

After the paper was published (February 19, 2002)

4. Baja, M = 5.7, Feb 22, 2002
5. Gilroy, M=4.9 - 5.1, May 13, 2002
6. Big Bear II, M=5.4, Feb 22, 2003
7. San Simeon, M = 6.5, Dec 22, 2003
8. San Clemente Island, M = 5.2, June 15, 2004
9. Bodie I, M=5.5, Sept. 18, 2004
10. Bodie II, M=5.4, Sept. 18, 2004
11. Parkfield I, M = 6.0, Sept. 28, 2004
12. Parkfield II, M = 5.2, Sept. 29, 2004
13. Arvin, M = 5.0, Sept. 29, 2004
14. Parkfield III, M = 5.0, Sept. 30, 2004
15. Wheeler Ridge, M = 5.2, April 16, 2005
16. Anza II, M = 5.2, June 12, 2005
17. Yucaipa, M = 4.9 - 5.2, June 16, 2005

Note: This original forecast was made using both the full Southern California catalog plus the full Northern California catalog. The S. Calif catalog was used south of lattitude 36º, and the N. Calif. catalog was used north of 36º . No corrections were applied for the different event statistics in the two catalogs. Green triangles mark locations of large earthquakes (M ≥ 5.0) between Jan 1, 1990 – Dec 31, 1999.

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